

ICS 65.160
CCS X 85

YC

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

YC/T 333-2010

**Determination of phthalates in water-brone adhesives for
cigarette. Gas chromatography-mass spectrometry method
(English Translation)**

Issued on: January 25, 2010

Implemented on: February 1, 2010

Issued by: State Tobacco Monopoly Administration

Table of Contents

- Foreword
- 1 Scope
- 2 Normative references
- 4 Reagents
 - 4.1 Reagents
 - 4.2 Extract
 - 4.3 Standard solution
- 5 Materials and equipment

Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard was proposed by the State Tobacco Monopoly Bureau.

This standard by the National Standardization Technical Committee of tobacco smokable material Technical Committee (SAC/TC144/SC8) centralized.

This standard was drafted. China Tobacco Standardization Research Center, Shanghai Tobacco (Group) Corporation, China Tobacco Hunan Industrial Co., Ltd., Hongyun Honghe Tobacco (Group) Co., Ltd., China National Tobacco Quality Supervision and Inspection Center.

Drafters of this standard. Wu Da, Dai Yunhui, Yang Bin, Chen Lianfang, Han Yunhui, Wu Ming-Jian, Zhanjian Bo, Tang Gang Ling, Xia Jianjun, head Liao root, Jiang chinensis, Chen Chen.

Determination of smoke water-based glue phthalates Gas chromatography - mass spectrometry

1 Scope

This standard specifies the method for determination of smoke in a water-based glue phthalate (seven kinds, see Appendix A), --- gas chromatography - mass spectrometry Was used to detect other phthalates can also refer to use.

This standard applies to smoke a water-based glue phthalic acid esters measured.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

Laboratory use specifications and test methods GB/T 6682 Analysis Principle 3 the sample is extracted with n-hexane containing the internal standard phthalates, gas chromatography - mass spectrometry, internal standard.

4 Reagents

Addition to special requirements, the reagents were HPLC grade (or redistilled AR), stored in a glass bottle, the water should be consistent with GB/T 6682 in A water requirement.

4.1 Reagents

4.1.1

n-hexane.

4.1.2

Phthalates. Purity $\geq 98\%$, see Appendix A.

4.1.3

benzyl benzoate (internal standard). purity $\geq 98\%$.

4.2 Extract

Preparation of benzyl benzoate (internal standard) concentration of approximately 100mg/L of n-hexane solution (4.1.1).

4.3 Standard solution

4.3.1

standard stock solution. Weigh accurately were various phthalates standards (accurate to 0.1mg), (4.1.1) formulated with n-hexane Into each phthalate concentration 5g/L of mixed standard stock solution. In the dark at 4 °C preservation, valid for three months.

4.3.2

Standard working solution. the preparation of necessary appropriate concentration of mixed standard working solution aside. Recommended methods formulated as follows. each shift Take 200 μ L, 100 μ L, 50 μ L, 20 μ L, 10 μ L, 0 μ L standard stock solution (4.3.1) and accurately extract was added 10mL (4.2) Mixed Uniform, standard solutions concentration prepared as follows. extract per milliliter contain phthalates were 100 μ g, 50 μ g, 25 μ g, 10 μ g, 5 μ g, 0 μ g.

5 Materials and equipment

The test should all use glassware, after being washed with a water rinsed three times with acetone soak 1h, room temperature and evaporated to dryness After baking at 200 °C 2h, cooled to room temperature before use.

5.1

Gas chromatography - mass spectrometry (GC-MS), has selected ion monitoring (SIM) function.

5.2

Analysis of balance. a sense of the amount of 0.1mg.

5.3

centrifuge. speed of not less than 4000r/min.